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Date: 11-18-03

Richard T. Lyon

PATENT
Microsoft Docket No. 305148.02
L&H No. MCS-039-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Liu et al.	Group Art Unit:: Unknown
Entitled: SYSTEM AND PROCESS FOR GENERATING REPRESENTATIONS OF OBJECTS USING A DIRECTIONAL HISTOGRAM MODEL AND MATRIX DESCRIPTOR	Examiner: Unknown
Serial No.: 10/660,819	
Filing Date: September 9, 2003	

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached hereto is Form PTO-1449 listing documents believed relevant to the subject application. It is respectfully requested that these documents be made of record and an initialed copy of each form be returned to the undersigned.

This disclosure statement should not be construed as a representation that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists.

Furthermore, no admission is being made that these documents are prior art, and applicant reserves the right to challenge any such conclusion.

It is believed that this disclosure complies with the requirements of 37 CFR 1.56, 1.97, and 1.98, and the manual of Patent Examining Procedures, section 609 and 707.05. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

A copy of each document is enclosed unless indicated otherwise. Some of the documents may have markings on them. No significance is meant to be attached to the markings. These documents are not necessarily analogous art.

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Respectfully submitted

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In place of Form PTO-1449

U.S. PATENT & TRADEMARK OFFICE
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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

DOCKET NO.: MCS-039-03	SERIAL NO.: 10/660,819
INVENTOR: Liu et al.	
FILING DATE: September 9, 2003	GROUP: Unknown

U.S. PATENT DOCUMENTS

*Examiner Initial	Ref.	Document Number	Date	Name	Class	Subclass	Filing Date (If Appropriate)

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS *(Including Author, Title, Date. Pertinent Pages, Etc.)*

	A1	Ankerst, M., G. Kastenmuller, H.P. Kriegel, and T. Seidl, 3D shape histograms for similarity search and classification in spatial databases, *Advances in Spatial Databases, 6th International Symposium, SSD'99*, Hong Kong, China 1999, vol. 1651, pp. 207-228.
	A2	Berchtold, S., and H. Kriegel, S3: Similarity search in CAD database systems, *Proceedings of the 1997 ACM SIGMOD International Conference on Management of Data,* 1997, pp. 564-567.
	A3	Cyr, C.M. and B. B. Kimia, 3D object recognition using shape similarity-based aspect graph, *ICCV01*, 2001, pp. 254-261.
	A4	Funkhouser, T., P. Min, M. Kazhdan, J. Chen, A. Halderman, D. Dobkin, and D. Jacobs, A search engine for 3D models, *ACM Transactions on Graphics*, 2003.
	A5	Garland, M., and P. S. Heckbert, Surface simplification using quadratic error metrics, *Proceedings of the 24th Annual Conference on Computer Graphics and Interactive Techniques,* 1997, pp. 209-216.
	A6	Healy, D. M., D. N. Rockmore, and S. S. B. Moore, FFTs for the 2 sphere improvements and variations, *Technical Report PCSTR96292,* 1996.
	A7	Hilaga, M., Y. Shinagawa, T. Kohmura, and T. L. Kunii, Topology matching for fully automatic similarity estimation of 3D shapes, *Proceedings for the 28th Annual Conference on Computer Graphics and Interactive Techniques*, 2001, pp. 203-212.
	A8	Kazhdan, M., T. Funkhouser, and S. Rusinkiewicz, Rotation invariant spherical harmonic representation of 3D shape descriptors, *Eurographics Symposium on Geometry Processing*, 2003.
	A9	Kobbelt, L., S. Campagna, and H. Seidel, A general framework for mesh decimation, *Graphics Interface*, 1998, pp. 43-50.
	A10	Lindstrom, P., and G. Turk, Fast and memory efficient polygonal simplification, *IEEE Visualization*, 1998, pp. 279-286.
	A11	Ohbuchi, R., T. Otagiri, M. Ibato, and T. Takei, Shape similarity search of three dimensional models using parameterized statistics, *IEEE Proceedings of Pacific Graphics*, Oct. 2002, pp. 265-274.
	A12	Osada, R., T. Funkhouser, B. Chazelle, and D. Dobkin, Matching 3D models with shape distributions, *Shape Modeling International*, May 2001, pp. 154-166.
	A13	Suzuki, M. T., A web-based retrieval system for 3D polygonal models, *Joint 9th IFSA World Congress and 20th NAFIPS International Conference (IFSA/NAFIP2001)*, 2001, pp. 2271-2276.
	A14	Vranic, D. V. and D. Saupe, 3D shape descriptor based on 3D fourier transform, *Proceedings of the EURASIP Conference on Digital Sound Processing for Multimedia Communications and Services,* Sept. 2001, pp. 271-274.
	A15	Vranic, D. V. and D. Saupe, Description of 3D shape using a complex function on the sphere, *Proceedings of the IEEE International Conference on Multimedia and Expo (ICME 2002),* August 2002, pp. 177-180.
	A16	Vranic, D. V., D. Saupe, and J. Richter, Tools for 3D object retrieval: Karhunen-Loeve transform and spherical harmonics, *Proceedings of the IEEE 2001 Workshop Multimedia Signal Processing*, October 2001, pp. 293-298.

EXAMINER:	DATE CONSIDERED:

*EXAMINER: Initial if any reference considered, whether or not the citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.